

Ellis County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 19 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Ellis County economy.¹

These 19 sectors have a total direct output of approximately **\$87.5 million** and support **864 jobs** in Ellis County. Running the model for all 19 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Ellis County Economy									
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product			
Direct Effect	863.9	3.40%	\$18,626,995	1.25%	\$87,470,011	5.87%			
Indirect Effect	219.2	0.86%	\$11,698,329	0.79%	\$22,945,991	1.54%			
Induced Effect	151.1	0.59%	\$9,077,691	0.61%	\$17,367,559	1.17%			
Total Effect	1234.2	4.85%	\$39,403,016	2.65%	\$127,783,561	8.58%			

As shown in the above table, agriculture, food, and food processing sectors support 1,234 jobs, or 4.85% of the entire workforce in the county. These sectors provide a total economic contribution of approximately \$127.8 million, roughly 8.58% of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 19 agriculture, food, and food processing sectors is approximately \$39.4 million, or 2.65% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 2.65% of the total economy.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **401 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Ellis County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	401.2	\$30,400,434		
Landscape and horticultural services	118.4	\$4,940,021		
Grain farming	107.6	\$25,222,247		
All other crop farming	101.9	\$4,909,177		
Support activities for agriculture and forestry	88.3	\$4,336,813		
Veterinary services	50.9	\$4,797,843		
Bread and bakery product, except frozen, manufacturing	27.8	\$3,276,640		
Wholesale trade	26.3	\$5,220,780		
Real estate	23.3	\$2,657,355		
Truck transportation	21.3	\$2,515,847		

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$30.4 million to the Ellis County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	401.2	\$30,400,434		
Grain farming	107.6	\$25,222,247		
Wholesale trade	26.3	\$5,220,780		
Landscape and horticultural services	118.4	\$4,940,021		
All other crop farming	101.9	\$4,909,177		
Veterinary services	50.9	\$4,797,843		
Support activities for agriculture and forestry	88.3	\$4,336,813		
Animal, except poultry, slaughtering	5.8	\$3,876,098		
Food product machinery manufacturing	14.5	\$3,848,007		
Bread and bakery product, except frozen, manufacturing	27.8	\$3,276,640		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Ellis County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	1.1	\$704,782.38		
Grain farming	107.6	\$25,222,246.59		
Fruit farming	0.4	\$19,193.05		
Greenhouse, nursery, and floriculture production	4.7	\$354,963.25		
All other crop farming	101.9	\$4,909,177.38		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	401.2	\$30,400,434.00		
Dairy cattle and milk production	12.1	\$2,760,722.29		
Poultry and egg production	0.8	\$376,771.97		
Animal production, except cattle and poultry and eggs	5.3	\$414,280.37		
Commercial logging	1.7	\$77,692.70		
Commercial hunting and trapping	6.1	\$45,392.04		
Animal, except poultry, slaughtering	5.8	\$3,876,097.51		
Bread and bakery product, except frozen, manufacturing	27.8	\$3,276,640.39		
Frozen cakes and other pastries manufacturing	1.4	\$214,301.17		
Other snack food manufacturing	0.9	\$474,760.38		
Breweries	1.5	\$756,684.86		
Food product machinery manufacturing	14.5	\$3,848,006.75		
Veterinary services	50.9	\$4,797,842.73		
Landscape and horticultural services	118.4	\$4,940,020.70		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Ellis County, the retail sector was omitted.